

# PATENT ABSTRACTS OF JAPAN

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(71)Applicant : HITACHI LTD

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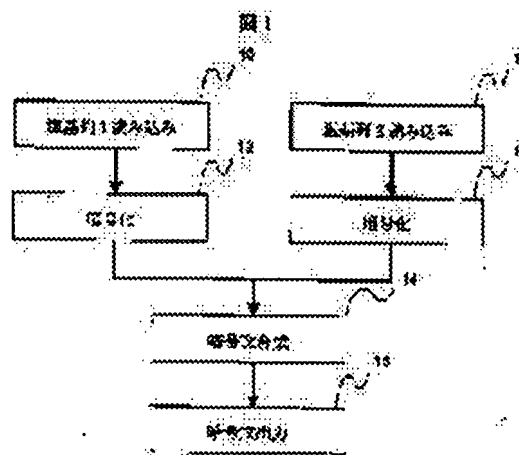
(72)Inventor : SAKATA MEIJI

## (54) METHOD FOR COMPOSITE CIPHERING

(57)Abstract:

PROBLEM TO BE SOLVED: To solve the problem that a cryptograph used for maintaining secrecy of data has only depended on cryptographic strength.

SOLUTION: The data are not simply ciphered but they are ciphered and synthesized.



## LEGAL STATUS

[Date of request for examination]

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TITLE: Composing encryption method involves separating and decoding second and first encryption rows to form encryption sentence which is then combined such that synthesized encryption sentence is formed

PATENT-ASSIGNEE: HITACHI LTD[HITA]

PRIORITY-DATA: 2000JP-0215883 (July 12, 2000)

PATENT-FAMILY:

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JP 2002023625 A	January 23, 2002	N/A	005	G09C 001/00

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INT-CL (IPC): G09C001/00

ABSTRACTED-PUB-NO: JP2002023625A

BASIC-ABSTRACT:

NOVELTY - A second encryption row, which enciphered a second symbol string, is inserted to a first encryption row which enciphered a first symbol string. The second and first encryption rows are then separated and decoded to form encryption sentence. The encryption sentence (12) is then combined to the other encryption sentence (13), such that a synthesized encryption sentence (14) is formed.

USE - For protecting private information e.g. base row, amino acid.

ADVANTAGE - Provides synthesized encryption sentence after enciphering encryption of data, hence allows effective data security.

DESCRIPTION OF DRAWING(S) - The figure shows the flow chart of the composing encryption method. (Drawing includes non-English language text).

Encryption sentence 12

Encryption sentence 13

Synthesized encryption sentence 14

CHOSEN-DRAWING: Dwg.1/5

TITLE-TERMS: COMPOSE ENCRYPTION METHOD SEPARATE DECODE SECOND  
FIRST ENCRYPTION

ROW FORM ENCRYPTION SENTENCE COMBINATION ENCRYPTION  
SENTENCE  
FORMING

DERWENT-CLASS: P85

SECONDARY-ACC-NO:

Non-CPI Secondary Accession Numbers: N2002-135281